## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

## LISTING OF CLAIMS:

- 1-4. (canceled).
- 5. (previously presented) An isolated antibody which binds to SEQ ID NO:1.
- 6. (previously presented) The isolated antibody of claim 5 which is monoclonal.
- 7. (previously presented) The isolated antibody of claim 5 which is polyclonal.
- 8-37. (canceled).
- 38. (previously presented) A pharmaceutical composition comprising an isolated antibody which binds to SEQ ID NO:1 and a pharmaceutically acceptable carrier or diluent.
- 39. (withdrawn currently amended) A method of screening a sample for a polypeptide comprising the amino acid sequence of SEQ ID NO:1, said method comprising:
- (a) contacting a test sample with an-the antibody of claim 5 which binds to a polypeptide comprising the amino acid sequence of SEQ-ID-NO:1, and
- (b) detecting binding of said antibody to said polypeptide, thereby screening a sample for a polypeptide comprising the amino acid sequence of SEQ ID NO:1.
- 40. (withdrawn currently amended) A method of reducing development of resistance to a chemotherapeutic agent in a patient, said method comprising administering antibody of claim 5 which binds to SEQ ID NO:1 to a patient in need of chemotherapy.
- 41. (new) An isolated antibody which binds to a polypeptide comprising an amino acid sequence selected from the group consisting of:
- (a) the Walker A motif of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 79 to position 86 of SEQ ID NO:1;
- (b) the phosphopantetheine site of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 213 to position 227 of SEQ ID NO:1;
- (c) the first transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 396 to position 414 of SEQ ID NO:1;

- (d) the second transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 538 to position 554 of SEQ ID NO:1; and
- (e) the third transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 630 to position 647 of SEQ ID NO:1.
  - 42. (new) The isolated antibody of claim 41 which is monoclonal.
  - 43. (new) The isolated antibody of claim 41 which is polyclonal.
- 44. (new) A pharmaceutical composition comprising an isolated antibody which binds to a polypeptide comprising an amino acid sequence selected from the group consisting of:
- (a) the Walker A motif of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 79 to position 86 of SEQ ID NO:1;
- (b) the phosphopantetheine site of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 213 to position 227 of SEQ ID NO:1;
- (c) the first transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 396 to position 414 of SEQ ID NO:1;
- (d) the second transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 538 to position 554 of SEQ ID NO:1; and
- (e) the third transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 630 to position 647 of SEQ ID NO:1, and a pharmaceutically acceptable carrier or diluent.
- 45. (new) A method of screening a sample for a polypeptide comprising the amino acid sequence of SEQ ID NO:1, said method comprising:
  - (a) contacting a test sample with the antibody of claim 41, and
- (b) detecting binding of said antibody to said polypeptide, thereby screening a sample for a polypeptide comprising the amino acid sequence of SEQ ID NO:1.
- 46. (new) A method of reducing development of resistance to a chemotherapeutic agent in a patient, said method comprising administering the antibody of claim 41 to a patient in need of chemotherapy.

- 47. (new) A method of reducing development of resistance to a chemotherapeutic agent in a patient, said method comprising administering the pharmaceutical composition of claim 44 to a patient in need of chemotherapy.
- 48. (new) An isolated antibody which binds to a polypeptide comprising an amino acid sequence selected from the group consisting of:
- (a) the Walker A motif of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 79 to position 86 of SEQ ID NO:1;
- (b) the phosphopantetheine site of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 213 to position 227 of SEQ ID NO:1;
- (c) the first transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 396 to position 414 of SEQ ID NO:1;
- (d) the second transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 538 to position 554 of SEQ ID NO:1; and
- (e) the third transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 630 to position 647 of SEQ ID NO:1,

wherein said antibody permits accumulation of daunorubicin in MCF-7 cells expressing a polypeptide having the amino acid sequence of SEQ ID NO:1.

- 49. (new) The isolated antibody of claim 48 which is monoclonal.
- 50. (new) The isolated antibody of claim 48 which is polyclonal.
- 51. (new) A pharmaceutical composition comprising an isolated antibody which binds to a polypeptide comprising an amino acid sequence selected from the group consisting of:
- (a) the Walker A motif of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 79 to position 86 of SEQ ID NO:1;
- (b) the phosphopantetheine site of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 213 to position 227 of SEQ ID NO:1;
- (c) the first transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 396 to position 414 of SEQ ID NO:1;

- (d) the second transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 538 to position 554 of SEQ ID NO:1; and
- (e) the third transmembrane domain of the polypeptide of SEQ ID NO:1, consisting of amino acid residues from position 630 to position 647 of SEQ ID NO:1, and a pharmaceutically acceptable carrier or diluent, wherein said antibody permits accumulation of daunorubicin in MCF-7 cells expressing a polypeptide having the amino acid sequence of SEQ ID NO:1.
- 52. (new) A method of screening a sample for a polypeptide comprising the amino acid sequence of SEQ ID NO:1, said method comprising:
  - (a) contacting a test sample with the antibody of claim 48, and
- (b) detecting binding of said antibody to said polypeptide, thereby screening a sample for a polypeptide comprising the amino acid sequence of SEQ ID NO:1.
- 53. (new) A method of reducing development of resistance to a chemotherapeutic agent in a patient, said method comprising administering the antibody of claim 48 to a patient in need of chemotherapy.
- 54. (new) A method of reducing development of resistance to a chemotherapeutic agent in a patient, said method comprising administering the pharmaceutical composition of claim 51 to a patient in need of chemotherapy.